

THIS MONTH'S PROGRAM

BASIC ANTENNA CONSTRUCTION AND USE

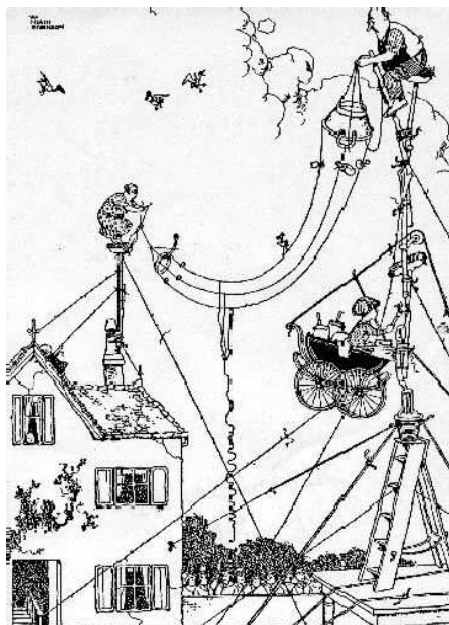
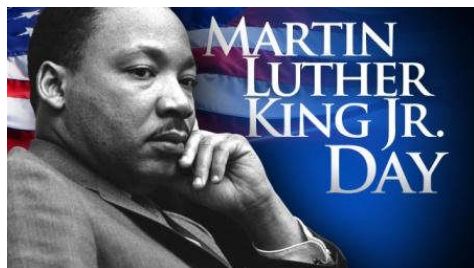
by Michelle Pacquette, AA6MP

Join us Friday night January 17, 2017 back at our regular meeting location at Our Saviors Lutheran Church in Lafayette. Michelle Pacquette, AA6MP, will talk about a very important piece of amateur radio equipment...the antenna.

— Larry Bradley, KK6QPE

MONTHLY MEETING
Friday January 20, 2017
 Our Saviors Lutheran Church
 1035 Carol Lane, Lafayette
DX Interest Group Meeting
 With Dave Piersall, N6ORB 6pm

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Michelle Pacquette,
AA6MP

2017 Renewal Reminder

It's that time of the year again to renew your club membership in. About half of our members already have. You should have received two e-mail notices and a letter by now. Please take a moment to renew. You can pay your dues at the January meeting, mail in a check or use your e-mail to pay via PayPal. Thank you to those that have already paid. Membership cards will be available at the January meeting for those that requested new cards.

Tom Deeble, KA6SIP, Membership Chairman



When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:
<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE CLUB YAHOO GROUP.
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

<http://groups.yahoo.com/group/mdarc>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Mike Patterson, N6JGA
Vice President - Larry Bradley KK6QPE
Secretary - Dick Fletcher, AF9RF
Treasurer - Cathi Walton, K2CJW
Technical Committee Chair
Jim Siemons, AF6PU

Directors At Large
Trevor Hall, WA6JAU Terry Buxton, KK6KGX
Janice Fujii, KG6VTD John Primus, AF6RJ

Emergency Coordinator - Ron Bunch, W4FEK

PACIFICON 2017

Chair: Misa Siemons, KJ6BUE
Registration: Tom Deeble, KA6SIP & Debbie Deeble
Treasurer: Jim Siemons, AF6PU
Secretary: Pete Harris, KE6ZIW
Web Page: Mike Patterson, N6JGA

Membership Chair - Tom Deeble, KA6SIP
mdarcmembership@mdarc.org

Website - David Schild, KK6CQX
Repeater Trustee - Jay Caldis, KT6Y
Education & Training Chair - John Primus, AF6RJ
License Testing - Larry Loomer, KI6LNB
Public Service - Pete Harris, KE6ZIW
Outreach Coordinator - Jim Siemons, AF6PU
Field Day Chair - Larry Loomer, KI6LNB
Refreshments: Elizabeth Styles, KG6HLV
Holiday Party - Misa Siemons, KJ6BUE
Trailer - Patrick Miller, KK6DBX
Vehicle - Lauren Styles, WA6CIE

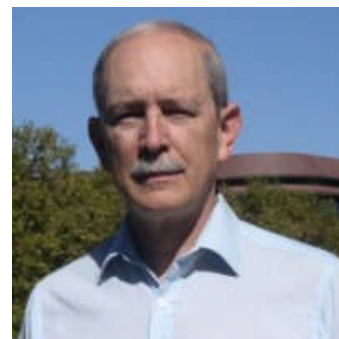
The Carrier Newsletter
Editor, Matthew G. Vurek, N4DLA
n4dla_cs245@yahoo.com
Proofreader - Larry Loomer, KI6LNB
Digital Media - David Molstad WB0HNY
Amateur Television Help and Information:
John Schuler, W6DTV JOHNQRZ@aol.com
Fred Coe, WB6ASU wb6asu@icloud.com



MDARC

President's Message

January, 2017



MDARC Family,

2017 – State of the Organization

Traditionally each January or early February, the President of the United States gives a State of the Union speech to Congress and the nation. Like that president, I will continue the long tradition (begun a year ago) of reporting to the membership on the State of our Organization. Unlike that other president's report however, this one has the benefit of being mostly true. Another benefit is that, though taking up a fair amount of space in this newsletter, it's substantially shorter than the one delivered in Washington.

My job as President has been made much easier due to the efforts of many, many people. I especially want to thank those of you that are retiring from your positions after years of dedication.

- Will Dickson, WB6YGF, Vice-President
- Mitch Boyce, W8DOD – Director, Pacificon Swap Meet Chair
- Frank O'Leary, KF6FIO – Director

- Organization:

- Annual election at November meeting; 53 ballots cast, 16% of membership.
- Elected new Board members. Welcome.
 - Larry Bradley, KK6QPE – Vice-President
 - Terry Buxton, KK6KGX - Director
- Incumbents reelected or not up for election this year.
 - Mike Patterson, N6JGA – President (reelected)
 - Dick Fletcher, AF9RF - Secretary (reelected)
 - Cathi Walton, K2CJW- Treasurer (reelected)
 - Ron Bunch, W4FEK - Emergency Coordinator (reelected)
 - Janice Fujii, KG6VTD - Director (reelected)
 - Trevor Hall, WA6JAU - Director (incumbent)
- Appointed to complete the term of resigning Director Mitch Boyce, W8DOD:
 - John Primus, AF6RJ – Director (one year term)
- Received a communications van, donated by KGO-TV.
- Reorganized the Trailer Committee as the Vehicle Committee – Lauren Styles, WA6CIE – Chair.
- Amended the bylaws to allow electronic meetings.
- Rented a new, larger storage unit and space for storing the van.
- Renewed ARRL Special Service Club status.

- Vice-President – Will Dickson, WB6YGF:

- Top notch speakers at the meetings.
- Speakers included Gordon West, WB6NOA.
- Attendance spread from 54 to over 100. Estimated average = 64.
- The Vice-President “would like to say it has been a privilege to act as VP over the past two years. Looking forward to 2018 where I plan to return in some capacity on the MDARC Board.”

- Treasurer – Cathi Walton, KJ6YNO:

- Account Balances:
 - Jan. 1, 2016: Checking- \$12,818.45; PACIFICON- \$32,108.90; Self-Insurance Fund: \$51,645.15.
 - Dec. 31, 2016: Checking- \$28,571.67; PACIFICON- \$24,476.55; Self-Insurance Fund: \$55,332.69.
- New liability insurance policy for the van.
- Amazon Smile donations. Amount received in 2016 = \$173.35. (Keep it coming!)

- Other donations = \$189.19; Totaling \$362.54.
- **Emergency Coordination - Ron Bunch, W4FEK:**
 - Research on possible development of an MDARC MOU template is continuing.
 - Working with the Hospital Net, SATERN and (hopefully expanding to Alameda Co Public Health) to determine which area facilities require an MOU, if they are needed.
 - Established a dedicated email account for the hospital issues - MDARC.Hospital.net@gmail.com.
 - Planning five Emergency Communications (EmComm) classes the summer of 2017 - three in June and two in August.
 - Topics to include SKYWARN training; Panel discussion on Hospital MOU - To Be or Not To Be; How MDARC, CoCo ACS, Maybe Others, Can Be More Involved In Area Wide Planning.
- **Auction – Bill Swindell, K1LED:**
 - Over 100 items sold.
 - \$4,849 earned for the Club.
- **Digital Media Committee –Mike Patterson, N6JGA:**
 - Created & administered Pacificon 2016 web site.
 - Began work on the Pacificon 2017 web site.
 - Created draft on-line membership application form.
 - Planning on-line education class registration form.
- **DX Special Interest Group - Dave Piersall, N6ORB:**
 - Meeting before each general meeting.
 - Topics included "Getting the DX Station's QSL Card", "Using a DX Cluster Website", and "Propagation."
 - Typically 6 to 10 hams at each discussion.
- **Education & Training - John Primus, AF6RJ:**
 - Continued our long & happy relationship with the Salvation Army.
 - Under the guidance and leadership of Larry Bradley, KK6QPE, our 2016 Education & Training program included the following:
 - Technician Class License Course
 - 1/14/16 through 2/25/16 (7 class sessions)
 - 28 students enrolled
 - 22 Average student attendance
 - 16 Average Elmer Participation
 - License testing
 - 18 students tested with 17 earning their Technician Class License (94% pass rate)
 - GOTA - HT (3/10/16, 3/17/16 and 3/24/16) Larry Loomer, KI6LNB
 - 14 Average student attendance
 - General Class License Course
 - 3/31/16 through 5/19/16 (8 class sessions)
 - 24 students enrolled
 - 16 Average student attendance
 - 8 Average Elmer Participation
 - License testing on (5/26/16)
 - 15 students tested with 11 earning their General Class License (73% pass rate)
 - GOTA - HF on (6/02/16)
 - 11 students attended
 - 11 Average Elmers participation
 - Extra Class License Course
 - (8/04/16 through 10/06/16) (10 class sessions)
 - 30 students enrolled
 - 19 Average student attendance
 - 14 Average Elmer participation
 - License Testing on (10/13/16, Pacificon and 11/18/16)
 - 11 students tested with 9 earning their Extra Class License (82% pass rate)
 - No Emergency Preparedness or Auxiliary Amateur radio class sessions in 2016

- Train the Trainers Seminar
 - (8/02/16) (1 class session)
 - 10 In-class Discussion Leaders and In-class Elmers attended
 - This class session was designed to help our In-class Seminar Leaders prepare an interactive presentation with our Extra Class License students that recognized the students' amateur radio experience and expertise as a part of the learning process.
- Education and Training Statistics
 - Students
 - 82 Total enrolled students
 - 57 Total Average Student Attendance
 - 37 New Amateur Radio Licenses
 - Elmers
 - 38 Total Average Elmer Participation
- Education and Training Committee Outreach to the Marin Amateur Radio Society (MARS)
 - Provided substantial outreach support to the Marin Amateur Radio Society, as they restart their training program.
 - Consulted, guided and provided educational materials for MARS to restart their Education and Training activity beginning with the Technician Class License Course
 - MARS Technician Class License Course
 - 9/07/16 through 10/19/16 (7 class sessions)
 - 15 Student Attendance
 - 7 Elmer participation
 - 14 new Technician Class Licensees
- Field Day – Larry Loomer, KI6LNB:
 - Prior Chair had to resign on short notice, due to family matters. Larry stepped in to save the day.
 - Short on help.
 - Manned 3 stations.
 - Including, Pete Harris, KE6ZIW, who set up a Getting on the Air Station and demonstrated antenna tuning with his Buddipole antenna.
 - Walnut Creek CERT hams organized a "What is Ham Radio?" demonstration in the adjacent building to the Field Day site.
 - 4 successful tests administered by the VE Team.
 - Band conditions were not the greatest.
 - Over 60 Contacts.
 - 2 Official visits from:
 - Jim Latham, AF6AQ, ARRL Section Manager.
 - Howard Burk, KE6PTT, Contra Costa County Fire Protection District (served agency).
 - Charles Henry, KG6PHZ, brought his solar power trailer (1.9 kW) & ran the site with it.
 - Veterans Administration Communication Van from San Francisco was there.
 - Tri-tip dinner with all of the fixings Saturday night. Over 40 attendees.
- Holiday Banquet - Misa Siemons, KJ6BUE:
 - Attendees Registered = 48.
 - Annual awards given (see below).
- License Testing - Larry Loomer, KI6LNB:

(includes at MDARC meetings, Pacificon and other locations administered by MDARC VEs)

 - 219 tests administered.
 - 106 new hams.
 - 79 upgrades.
 - Pass rate = 84%.
 - Breakdown:
 - Technician: 117 Administered; 106 Passed
 - General: 66 Administered; 50 Passed
 - Amateur Extra: 36 Administered; 29 Passed

- 26 VE participants.
- **Membership - Tom Deeble, KA6SIP:**
 - Total members = 361
 - About the same number of members as January 1.
 - Directory improved & published.
 - Maintained renewal membership fee unchanged for the last several years.
 - Trevor Hall, WA6JAU, elevated to Life Member status.
- **Newsletter - Matthew Vurek, N4DLA:**
 - 11 electronic issues published to archive our club activities and events with news and photographs.
 - The editor greatly appreciates the members who contributed photos, articles and announcements to *The Carrier*. This helped improve the quality and depth of the newsletter.
- **Outreach Coordinator - Jim Siemens, AF6PU:**
 - Two new Club banners purchased.
 - Numerous phone calls and emails with questions and requests received and answered. D-Star of special interest.
 - Donations by the Club & Members – Giving Back:
 - Members donated 15 frozen turkeys to the Salvation Army during their Thanksgiving/Christmas drive in November. \$400 in cash also donated, spent in more turkeys.
- **Pacificon – Misa Siemons, KJ6BUE:**
 - 1,212 paid attendees
 - 34 Vendors
 - 14 Non-Profit Exhibitors
 - 36 Forums, mostly packed
 - Special guests: Gordon West, WB6NOA, & Bob Heil, K9EID
 - Other Events:
 - Antenna Seminar.
 - ARRL Pacificon Division Forum.
 - Banquet.
 - Breakfast with Gordo.
 - Digital technologies meeting (off site)
 - Door Prizes.
 - Ham Instructor Academy.
 - Ham Radio 101 and 202 (hosted by the Bay-Net Group).
 - MDARC club meeting.
 - Parachute Mobile.
 - QRP meetings.
 - QSL Card checking.
 - Swap Meet.
 - Wouff Hong initiation.
 - Location: San Ramon Marriott
 - Some rooms enlarged to accommodate forum audience. Still filled them.
 - Excellent hotel staff service.
 - Special Event Station:
 - Provided by the Palo Alto Amateur Radio Association (PAARA)
 - One HF station.
 - 32 hours total operating time.
 - 701 contacts with 31 entities.
 - 25 Boy Scouts operated
 - One-Day Class:
 - Held Two One-Classes for the first time ever; a Technician and General Class.
 - Technician Class
 - 20 students
 - 14 students tested for their Technician Class license. 12 passed.

- General Class
 - 23 students
 - 19 students tested for their Technician Class license. 11 passed.
- License Testing (also included in main License Testing category above):
 - 69 tests administered
 - 19 new hams
 - 32 upgrades
 - General: 18
 - Amateur Extra: 14
- **Public Service - Pete Harris, KE6ZIW:**
 - 11 events (walkathons, marathons, bicycle races, horse trail rides, Alcatraz swims, municipal parades)
 - 55 hams participated.
 - 8 event coordinators.
- **Technical Committee - Jim Siemons, AF6PU:**
 - South Peak:
 - The 2 meter and D-Star repeaters are now combined on the same antenna. 20+ dB signal increase for D-Star.
 - Phone line is shut down. Replaced with Google Voice, saving \$48 per month.
 - 220 MHz repeater power amp failed. Repaired at factory.
 - A co-channel repeater in Coalinga was causing some interference. Objections filed with NARCC. Now resolved.
 - Malicious and non-malicious transmissions continue on our 2 meter repeater. Efforts to track down the perps continue.
 - 220 MHz & 440 MHz systems disrupted by site manger cutting the feed lines during a tower reconfiguration.
 - All antennas except 2 meters removed from the tower. Now mounted on the building.
 - North Peak:
 - A Tech Net and Roundtable begun on the ATV system, every Tuesday night.
 - The ATV system is currently running on 3 channels to improve video & audio quality.
 - Direction finding (DF) sub-committee formed.
 - Jim Blair, KK6WFR is first Chair.
 - For 2017:
 - New Nets coming in 2017.
 - Clean up of operations on North Peak into two new racks.
 - Acquire and install technology in MDARC 1 that matches the repeater systems and nets that operate under W6CX call sign.
- **Vehicle Committee - Lauren Styles, WA6CIE:**
 - Received a donation of an Electronic News Gathering (ENG) van from KGO-TV.
 - Replaced its tires & battery.
 - Began planning for upgrades & equipment installation for both the van and the trailer.
- **Awards:**
 - MDARC Ham of the Year, 2016: Larry Bradley, KK6QPE.
 - MDARC Kilroy Key, 2016: Larry Loomer, KI6LNB.
 - National ARRL honors for two members:
 - Jim Brunk, N6BHX, 5th in the Pacific Division on the Volunteer Examiner Honor Roll.
 - Larry Loomer, KI6LNB, 3rd in nation on the Public Service Honor Roll.
 - Life Member: Trevor Hall, WA6JAU.
 - Promotion: John Primus, AF6RJ, to ARRL East Bay Section Assistant Section Manager (ASM) for Education & Training
- **Silent Keys:**
 - Tom Martin, KA7WHI; MDARC Club member.
 - Larry Miller, KD6ZUJ; MDARC Club member; Pacificon Hospitality Co-Chair; SATERN member.

- Robert Lausten, W6ERA; MDARC Club member.
- Tom Seabury, K16O; MDARC Club member; multiple office holder.
- Linda Barrett; wife of MDARC member Tim Barrett, K6BIV.
- Joel Nadler, NN6J; Club member, Pacificon Vendor Chair, NARCC Communications Manager.

• **Natural & Human Events – Be Forewarned:**

- January 24, 2016; Earthquake; Magnitude 7.1 & 6.8 - 161 mi SW of Anchorage, Alaska
- March 9, 2016; Earthquake; Magnitude 3.0 - Livermore, CA
- March 20, 2016; Earthquake; Magnitude 3.3 - Kenwood, CA
- March 29, 2016; Earthquake; Magnitude 3.2 - 9 mi E of San Jose, CA
- April 15, 2016; Earthquake; Magnitude 7.0 - Kumamoto-shi, Japan
- June 4, 2016; Earthquake; Magnitude 3.6 - Cupertino, CA
- August 1, 2016; Earthquake; Magnitude 3.2 - Kenwood, CA
- August 1, 2016; Earthquake; Magnitude 3.0 - American Canyon, CA
- September 3, 2016; Earthquake; Magnitude 5.6 - Pawnee, Oklahoma
- September 13, 2016; Earthquake; Magnitude 3.5 - Piedmont, CA
- September 28, 2016; Earthquake; Magnitude 3.2 - Alum Rock, CA (near San Jose)
- November 13, 2016; Earthquakes; Magnitude 7.8 & 6.2 - near Christchurch, New Zealand
- December 8, 2016; Earthquake; Magnitude 6.5 - Offshore California, 97 mi. W of Ferndale
- December 8, 2016; Earthquake; Magnitude 7.7 - Kirakira, Solomon Islands

Remember to shop on Amazon Smile at <https://smile.amazon.com/ch/23-7072059> to donate to MDARC; and please consider volunteering for the Club. No experience necessary. Our Club and all the activities we do, like those above, can't exist unless you volunteer.

73 until next time,

Mike Patterson, N6JGA
President



SPECIAL EVENT STATION ON THE AIR — Payson, Arizona -- Sponsored by the Tonto Amateur Radio Association, Inc. and the Northern Gila County Historical Society (operators of The Rim Country Museum and The Zane Grey Cabin). Members of our amateur radio association will be active from January 28 - 31, 2017 using the call sign K7Z from their own stations as well as from the Zane Grey Cabin in Payson, AZ. Preferred frequencies will be in the General band segments. Like Us? Spot Us!

A special QSL card will be available for the event: <https://www.qrz.com/db/k7z>

QSL INFO: Direct Only - Your Card and SASE, Sorry No eQSL, LOTW or Bureau.

Send a SASE (self-addressed stamped envelope) for a commemorative QSL card to:

Tonto Amateur Radio Assoc., Inc. PO Box 765 Payson, AZ 85547

MDARC Multi-year Financial Analysis

Many times someone has heard it said that MDARC has a lot of money. And indeed it does appear to be the case given the monthly totals reported at the general meetings. However, the Board wanted a better understanding of the financial health of the club over the next few years. With that in mind, a report was compiled that covers the current fiscal year (2016) through 2018, taking into account the regular operating expenses and the costs that would have to be covered by the Equipment Self-Insurance Fund in a worst-case disaster scenario.

The report is in two parts: an Overview and a Multi-Year Budget Projection. The top section of the Overview page shows the projected year-end account balances (i.e., assets) for 2016 through 2018, followed by the estimated worst-case potential costs, i.e., those expenses that would have to be covered by the Equipment Self-Insurance Fund should disaster strike. The line titled Worst-Case Scenario Potential Deficit shows the size of the potential deficit the club would face should a major event happen. Obviously, depending on the nature of the event, only some of the costs might need to be covered by the Self-Insurance Fund. For less severe disasters there may be no deficit at all.

The first column in the Multi-Year Budget Projection section is the MDARC membership approved budget for 2016. The second column shows the year-end projection for the actual expenses through 2016. The last two columns are first-cut budget projections for 2017 and 2018 respectively based on input from the Board and Committee Chairs. Note that the Vehicle Committee Expenses category replaces the approved budget category Trailer Maintenance (with "0" expense). The recent KGO donation of the media van necessitated the renaming and expansion of the Trailer Maintenance category.

The Checking Acct Ending Balance amounts from the Budget Projection pages are simply transferred to the Checking Account Balance amounts on the Overview page. The \$20,000 amount shown for the Pacificon Account is comprised of the \$10,000 seed money plus a projected surplus of \$10,000.

As with all financial projections, the final actual income and expense amounts will vary somewhat from the estimates. The income estimates are on the conservative side whereas the expense estimates include "would be nice if the club can afford it" activities. Nonetheless, the downward trend of the checking account is sobering. Income in 2016 was higher than average and should not be expected to remain at that level.

The Board members are happy to answer any questions or accept input to the report.

Cathi Walton, KJ6YNO
MDARC Treasurer

	MDARC Financial Analysis 2016 - 2018		
	OVERVIEW Page		
	Projected	2017 Projected	2018 Projected
Description	2016 Actuals	Year End	Year End
<u>Projected Assets</u>			
Checking Account Balance	32,152	14,417	2,559
Equipment Self-Insurance Fund	55,332	56,048	56,764
Pacificon Account	20,000	20,000	20,000
Total Assets	107,484	90,465	79,323
<u>Worst-Case Disaster Potential Costs</u>			
South Peak Equipment Replacement	34,000	34,000	34,000
North Peak Equipment Replacement	12,500	12,500	12,500
Equipment Relocation Expense	5,000	5,000	5,000
Projectors Replacement	8,500	8,500	8,500
Other Radio Equipment Replacement	7,000	7,000	7,000
North/South Peak Contract Obligation	0	0	0
Equipment Relocation Expense	5,000	5,000	5,000
Trailer/Van Replacement	5,000	15,000	18,000
Min Pacificon 2017 Cancellation Fee	48,000	48,000	0
Min Pacificon 2018 Cancellation Fee	27,000	27,000	48,000
Total Potential Costs	152,000	162,000	138,000
Worst-Case Scenario Potential Deficit	-44,516	-71,535	-58,677
Note:			
Maximum Pacificon Exposure		112,721	65,147

MDARC Financial Analysis 2016 - 2018				
Multi-Year Budget Projection - Page 1				
		Projected	Projected	Projected
Description	2016 Budget	2016 Actuals	2017 Budget	2018 Budget
<u>Income</u>				
Donations	100	250	100	100
Scholarships	0	0	0	0
Bank Interest	18	18	18	20
Holiday Banquet	3,575	3,575	3,900	4,200
Auction	800	4,849	800	800
Book Sales	0	0	0	0
Food Sales	50	40	40	40
Newsletter & Membership directory	150	375	350	350
License Testing	100	225	200	200
Merchandise Sales	50	0	0	0
Education Dept. Income	200	310	250	250
Miscellaneous Revenue	0	0	0	0
Raffles	400	500	400	400
Membership Dues	10,000	11,653	10,500	10,500
PACIFICON Surplus to MDARC	21,770	21,770	10,000	10,000
Total Income	37,213	43,565	26,558	26,860
<u>Expense</u>				
Auction Committee				
Expenses to run auction	50	34	0	0
Auction payout	0	141	0	0
Total	50	175	0	0
Digital Media Committee				
	100	0	1,000	1,000
Education Expenses				
	300	338	225	475
EmComm Expenses				
	300	0	300	300
Field Day				
BBQ/food expense	300	341	500	500
Site Rental	175	175	200	200
Toilet Rental	425	398	425	450
Total	900	914	1,125	1,250
Holiday Banquet				
Decorations	145	145	150	150
Gifts	80	80	100	100
Meal Cost	3,250	3,250	3,650	3,950
Total	3,475	3,475	3,900	4,200
Meeting Expenses				
Meeting Place	1,000	1,000	1,000	1,000
Vice President Expenses	50	0	50	50
Food purchases for meetings	100	0	100	100
Presentation expenses	200	0	200	200
Raffle Expenses	45	45	45	45
Field Trips	0	0	0	0
Total	1,395	1,045	1,395	1,395

	Multi-Year Budget Projection - Page 2			
Membership Department				
Misc printing/postage/etc	265	100	110	120
Printing/Mailing the Carrier	145	380	400	400
Printing member directory for sale	26	0	0	0
Total	436	480	500	500
Outreach				
Awards	300	300	300	300
Badges and Apparel	0	0	200	300
Books, Subscriptions	0	0	0	0
Donations	1,000	500	500	500
Printing/Copying	0	0	200	200
Marketing	200	85	200	300
Scholarships	0	0	1,000	1,000
Telephone, Telecommunications	0	0	0	0
Total	1,500	885	1,000	1,000
Repeater Operations				
Association Dues	20	20	20	20
Internet Service	960	1,180	2,160	2,200
Labor	5,000	0	5,000	5,000
License Renewal	0	0	0	0
Parts Purchase	500	827	1,000	1,000
Repeater Phone Service	516	132	0	0
Site Rental				
North Peak	1,800	1,800	1,800	2,000
South Peak	9,444	9,468	9,762	10,068
Total	18,240	13,427	19,742	20,288
Storage	840	810	2,400	2,400
Treasurer's Expenses				
Accounting Fees	600	580	600	750
Bank Fees	0	23	0	25
Businesss Fees	80	60	80	80
Equipment Acquisition Reserve	700	700	700	700
Liability Insurance	850	300	350	400
Misc Expenses	110	53	150	100
PO Box Rental	132	134	136	140
Total	2,472	1,850	2,016	2,195
Vehicle Committee Expenses				
Trailer/Van Upgrade	0	0	5,000	1,500
Van Registration & Insurance	0	355	690	715
Van Maintenance	0	975	5,000	1,500
Van Parking	0	300	1,800	1,800
Total	0	1,630	10,690	3,715
Total Expenses	30,008	25,029	44,293	38,718
Total Income	37,213	43,565	26,558	26,860
Balance	7,205	18,536	-17,735	-11,858
Checking Acct Beginning Balance	13,616	13,616	32,152	14,417
Checking Acct Ending Balance		32,152	14,417	2,559
Equipment Self-Insurance Fund		55,332	56,048	56,764

		MDARC	
Description	2017 Budget	Outreach	
<u>INCOME</u>		Awards	300
Donations	100	Badges and Apparel	0
Bank Interest	18	Books, Subscriptions	0
Holiday Banquet	3,900	Donations	500
Auction	800	Printing/Copying	200
Food Sales	40	Marketing	200
Newsletter & Membership directory	300	Scholarships	0
License Testing	200	Total	1,200
Merchandise Sales	0	Repeater Operations	
Education Dept. Income	300	Association Dues	20
Miscellaneous Revenue	0	Internet Service	2,160
Raffles	400	Labor	5,000
Membership Dues	10,000	Parts Purchase	1,000
PACIFICON Surplus to MDARC	14,000	Site Rental	
Total Income	30,058	North Peak	1,800
		South Peak	9,762
<u>EXPENSES</u>		Total	19,742
Auction Committee		Storage	1,308
Expenses to run auction	0	Treasurer's Expenses	
Auction payout	0	Accounting Fees	600
Total	0	Bank Fees	0
Digital Media Committee	500	Businesss Fees	80
Education Expenses	150	Equipment Acquisition Reserve	700
EmComm Expenses	300	Liability Insurance	350
Field Day		Misc Expenses	150
BBQ/food expense	500	PO Box Rental	136
Site Rental	200	Total	2,016
Toilet Rental	425	Vehicle Committee Expenses	
Total	1,125	Trailer Maintenance	500
Holiday Banquet		Trailer Upgrade	500
Decorations	150	Trailer/Van License & Registration	150
Gifts	100	Van Liability Insurance	650
Meal Cost	3,650	Van Maintenance	5,000
Total	3,900	Van Upgrade	4,000
Meeting Expenses		Van Parking	1,104
Meeting Place	1,000	Total	11,904
Vice President Expenses	50	Total Expenses	
Food purchases for meetings	100	Total Income	
Presentation expenses	200	Balance	
Raffle Expenses	45		
Field Trips	100		
Total	1,495		
Membership Department			
Misc printing/postage/etc	110		
Print/Mail the Carrier & Directory	400		
Total	510		



WELCOME NEW MEMBERS

Mark Anderson, KF6SML

Daniel Coyne, KJ6TXM

William T. Farley, KM6GAH

Joseph W. Finnigan, KM6HEA

Bea Fisher, KG7MVV

Connor Hough, KK6WFS

Marilyn Howes, SWL

Melanie McIntire, SWL

Sabine Salek, KM6FPZ

Kent Werges, K6KWW

John Primus, AF6RJ, Appointed Assistant Section Manager for Training in ARRL East Bay Section

It is with great pleasure that I announce the appointment of John Primus, AF6RJ, as Assistant Section Manager (ASM) Education & Training. John has been instrumental in developing the MDARC education and training program and will now bring his skills and talents to build the East Bay Section Education and Training program.

Among his proposals is that a site on our ARRL East Bay Section website be developed to be a repository for the many tools, speakers list, PowerPoint presentations, handouts, and techniques that all the clubs in the Section have developed. Please contact John directly if you have suggestions for content. We hope to have this web page active sometime in the first quarter of 2017.

Additionally, he would like to form interactive group of Elmers in our Section to share ideas on how best to set up everything from license classes of various lengths, to CW courses, to EmComm (EC-001, etc.) courses, to Getting on the Air, DXing, Antenna Design, and on, and on... Your input and participation are critical to the success of this concept.

We have an amazing amount of talent in our Section, and we think that letting it lay fallow at the club level is a real shame. I think that John, as our ARRL Assistant Section Manager, can best help us move this initiative forward. Please contact John directly if you have ideas to share or if you need assistance starting or expanding your club's education and training program. — *James Latham, AF6AQ, Section Manager*



For outstanding service on behalf of our club, the **2016 HAM OF THE YEAR AWARD** was presented to Larry Bradley, KK6QPE.
(KE6ZIW photos)



For exemplifying the helping tradition of amateur radio through improving the ham community at large, the **2016 KILROY KEY AWARD** was presented to Larry Loomer, KI6LNB.

FIELD DAY 2017 ANNOUNCEMENT

The MDARC Field Day 2017 will be held in Heather Farm Park in the parking lot that is located north of the Community Center Building on North San Simeon Drive at Ygnacio Valley Road. Setup will begin on Friday, June 23, in the afternoon. The beam on the MDARC trailer will need to be assembled and raised on its mast. Other HF stations will need to have their antennas installed for each of the operating station locations. The solar power trailer belonging to Charles, KG6PHZ, will be our power source for the entire event. Come and see what upgrades Charles has made to the trailer since last year's Field Day. The trailer will be bigger and more powerful than ever.

We are in need of band captains to do the operating during the event, from 1100 hours on Saturday morning to 1100 hours on Sunday morning. In addition to people to operate the various bands, we need radios and antennas. We also need greeters to explain to the members of the public that visit our Field Day site what we are doing and what ham radio is all about. There will be an opportunity for license testing for all three ham license levels from 1 PM to 3 PM at the Field Day site. Our operating stations will be available for operating throughout the night. If you are a night owl that loves to catch far away stations during the night, we have an opportunity for you to participate with us. Another opportunity not to be missed is the availability of camping overnight in a Walnut Creek city park. Rolling grass areas are available to pitch your camping tent, or you may bring your RV and park overnight in the Field Day parking lot. The new MDARC Van will be there at Field Day. After 1100 hours on Sunday, the radio equipment will need to be taken down and put away until next year. Helpers to do this task will be greatly appreciated.

Field Day is a social event as well as an operating event. Stop by and hang out with us at an operating station and observe how contacts are made. You may want to get in on the fun and make a few contacts yourself for the club.

From the above list of activities, you can see that there are many activities that are happening and a lot of opportunities to get involved in the action of Field Day. Please come to Heather Farm Park in Walnut Creek and be a part of Field Day, 2017. We look forward to seeing you there.

MDARC Board of Directors **Meeting Minutes**
Date: December 5, 2016 Time: 1900 Hours (7:00 PM)

Presided over by: President, Mike Patterson, N6JGA

Recorded by Richard Fletcher, AF9RF, Secretary

The meeting was held at the Black Bear Diner 700 Bancroft Rd Walnut Creek, Ca.
And was called to order at 7:02 PM

The additional following members were in attendance:

Will Dickson, WB6YGI, Ron Bunch, W4FEK, Trevor Hall, WA6JAU, Cathi Walton, WA6YNO
Jim Seimons, AF6PU, Misa Seimons, KJ6BUE, John Primus, AF6RJ, Larry Bradley, KK6QPE
Terry Buxton, KK6KGX, Larry Loomer, KI6LNB, Charles Henry, KG6PHZ, Janice Fuli, KG6VTD,
Patricia Miller, KK6DBY, Nancy Miller, KJ4KG, Sherman Mah, KM6AH

President Mike reported on his attendance at the recent ARRL section meeting concluding with a suggestion that everyone contact their Senator in Washington, DC about the current bill relating to new rules about antenna and tower restrictions.

VP, Will reported that the programs for January and February are set and reminded everyone that there would be the club auction in April in place of the usual meeting.

Treasurer Cathi explained the club budget structure and took questions from the group about the different items and categories. The monthly report concluded with a total account balance of \$132,315.66.

Larry Loomer, KI6LNB reported that the Benicia Radio has for their members yellow shirts and jackets and how this has fostered a sense of camaraderie among them. He suggested that a similar effort be undertaken by our club.

A discussion occurred relating to the assignment of the position of Field Day Chair. President Mike agreed to contact Lauren, WA6CIE about the job.

AF6RJ, John covered the education and training plan for year 2017.

There was a short discussion about the scheduling of the Holiday Dinner on a Sunday at 5 pm with dinner at 6pm.

The group reviewed the clubs paraphernalia needed to perform the outreach effort for the coming year.

Misa Siemons reported there would be no Pacificon meeting this month. The next meeting would be in January, next. She also discussed Pacificon 2017 with the group.

The tech committee reported many visits to the two mountain tops recently. The new 220 antenna is working well and there is a need to be able to quickly reconfigure the two-meter DMR repeater to analog ops if necessary.

There was a motion to authorize funds to purchase a new battery for the club van. The figure was set at \$150.00 and was passed.

There was a plea for help with moving club equipment from the old to the new storage space. A question arose about moving our Board Meeting place or not. It was decided to stay put unless conflicts arise.

President Mike announced that we need the 2017 Budget by the next board meeting. We then discussed the approval process. The January Board meeting was set for the second Monday, January 9th 2017 to accommodate the New Years holiday.

The meeting was concluded at 2045 (8:45 PM)

Respectfully submitted by Richard Fletcher, AF9RF, Secretary

Date: January 9, 2017 Time: 1900 Hours (7:00 PM)

Presided over by: President, Mike Patterson, N6JGA

Recorded by Richard Fletcher, AF9RF, Secretary

The meeting was held at the Black Bear Diner, 700 Bancroft Rd, Walnut Creek, Ca and was opened at 7:00 PM with introductions. There were 16 attendees.

The Vice President reported that the evening program at the upcoming meeting, January 20th, will be given by Michelle Paquette, AA6MP and the subject will be “Basic antenna construction and use”.

The evenings' efforts began with Treasurer Cathi asking for questions or comments pertaining to the proposed budget for year 2017. She passed around copies of it and also the December 2016 budget report to those who had not already procured one. She responded to all the questions, suggestions and comments that followed which consumed most of the time for meeting.

The resulting 2017 budget was submitted to the board, voted on and approved.

It was reported by the tech committee that the changes to the digital communications that are in progress are moving forward.

John, AF6RJ reported that the current Technician class consists of 29 students who have seven (7) class sessions to attend. The General license which begins 3/23/17 will have 8 sessions.

The board received a brief report on progress toward Field Day.

There was a report on the status of Chuck Graham KI6DCD's health.

Jim, AF6PU, reported reception of two (2) equipment racks destined to be used at North Peak.

A discussion ensued about the geographic extent of public service events in our area. It was discovered that they are many and far flung.

A copy of instructions for Van and Trailer denoting the mission statement and use of these vehicles was handed out. Finally, there was a short discussion about club paraphernalia, mugs, jackets, caps, etc.

Respectfully submitted by Richard Fletcher, AF9RF, Secretary



H.R. 555 — a new “Amateur Radio Parity Act” bill — has been introduced in the U.S. House of

Representatives. The bill’s language is identical to that of the 2015 measure, H.R. 1301, which passed in the House late last summer but failed in the waning days of the US Senate to gain the necessary support. As with H.R. 1301, the new measure introduced on January 13 in the 115th Congress was sponsored by Rep. Adam Kinzinger (R-IL), with initial co-sponsorship by Rep. Joe Courtney (D-CT) and Rep. Greg Walden, W7EQI (R-OR). Walden now chairs the House Committee on Energy and Commerce, to which the new bill has been referred. H.R. 555 will get an initial airing in the Subcommittee on Communications and Technology. When H.R. 1301 came up in committee, Walden spoke forcefully in favor of the measure, which ultimately attracted 126 House cosponsors. — *American Radio Relay League*

General Meeting Minutes November 18, 2016

Presided over by: President Mike Patterson N6JGA

Meeting location: Our Saviors Lutheran Church 1035 Carol Lane, Lafayette, Ca.

The Meeting was called to order at 7:30PM PST. A pledge of allegiance was performed at this time.

Officers Reports:

President: Reminded everyone that the annual elections will take place tonight.

Vice President: Reported that the programs for future are planned.

Secretary: The November Board meeting minutes were approved by the members.

Treasurer: Reported on monthly resulting balances as well as the Pacificon statuses. She told the members about the various sub accounts resulting in a bottom line value of \$139,XXX. She said she would be doing a two year projection. It will be published in the Carrier.

It was reported that an effort has begun to to facilitate joining the club, renewing membership and signing up for classes by online Technology.

Education Chair: AF6RJ, John talked about supporting the training efforts at the Marin Radio Club. Recent efforts there had good results.

Misa, KJ6BUE announced the annual holiday banquet will held at the usual place on December 2 and will cost \$53 this year. She also announced our commitment to Pacificon for next year saying that it will be better than ever.

Jim, AF6PU briefed all on therecently received the KGO donated news van. He said there was some hitches in the tower and antenna cabling but they were ironed out.

Pete Harris spoke about the club's effort in providing radio support for Parades Charity walks, races & etc.

The test results for the evening was 5 Technician and 2 Extra class tests passed.

Lauren, WA6CIE, told all about the help needed on the new van and on the Salvation Army holiday effort, i.e.receiving turkeys at the SATERN Facility.

President Mike brought a motion to change the club by-laws to allow electronic conferencing. The motion was passed by the membership.

Respectfully submitted by: Richard Fletcher, AF9RF, Secretary



Where will you be on August 21st, 2017 ?

The continental US will be treated to a Total Solar Eclipse on that day! The eclipse will start on the west coast and then work its way across the US in a southeastern direction.

We are only around 550 miles south of the total eclipse line as it passes over Oregon! The bay area will still get to see a partial eclipse of around 75% to 80%. Camp & hotel reservations in Oregon are disappearing quickly with some selling out two years ago!

There is a US map showing the path of the total solar eclipse in the January 2017 edition of QST on page 56. It's part of an interesting article on Modulation-Demodulation Software Radio that starts on page 50. There is a wealth of information on the eclipse using the Google internet search.

My wife & I are planning on taking our 12 year old granddaughter camping at John Day, Oregon to view the eclipse and hopefully the weather will cooperate. Whatever you do - please use special eclipse glasses, a solar filter or a pinhole projector to watch any partial eclipse (including before & after the total eclipse). — *Tom Deeble, KA6SIP*



The first 2017 Technician License Class Starts January 12th, 2017 at 6:30 pm. Please bookmark the link below for the years training schedule.

<http://www.mdarc.org/activities/education/Classes-2016>

Class sessions normally begin at 7:00 pm sharp and end by 9:00 pm. The first class session of each License Class begins 1/2 hour earlier 6:30 pm to provide for registration, manual & materials distribution and other administrative necessities. *Please share with your friends interested in earning their Technician Licence or upgrading to General. For More details and Registration email: HamRadioClass@gmail.com* The Extra License classes are scheduled during even years with the next Extra Class starting in August 2018. Class Location is the Salvation Army Concord Corps, Fireside Room, 3950 Clayton Rd., Concord CA 94521 (Cross of West Street)

Technician License Class (1st License)	Jan. 12 - Feb. 23, 2017 (7 sessions)
License Testing	March 2, 2017
Get On The Air (GOTA)	March 9, 2017
<i>Amateur Radio Communications Explained</i>	
Get On The Air (GOTA)	March 16, 2017
<i>Amateur Radio Communications Practiced</i>	
 General License Class (Upgrade)	 Mar. 30 - May 18, 2017 (8 sessions)
License Testing	May 25, 2017
Get On The Air (GOTA)	June 1, 2017
<i>HF Communications</i>	
 Auxiliary or EmComm Training (<i>Topic TBA</i>)	 June 8, 2017
Auxiliary or EmComm Training (<i>Topic TBA</i>)	June 15, 2017
Auxiliary or EmComm Training (<i>Topic TBA</i>)	June 22, 2017
 Salvation Army Church Camp Break (No Classes)	 June 29 – July 27 2017
 Technician License Class (1st License)	 Aug. 4 - Sept. 28, 2017 (7 sessions)
License Testing	Oct 5, 2017
Get On The Air (GOTA)	Oct. 12, 2017
<i>Amateur Radio Communications Explained</i>	
Get On The Air (GOTA)	Oct. 19, 2017
<i>Amateur Radio Communications Practiced</i>	
 Auxiliary or EmComm Training (<i>Topic TBA</i>)	 Oct. 26, 2017
Auxiliary or EmComm Training (<i>Topic TBA</i>)	Nov. 2, 2017
 Annual Instructor Team Meeting	 Nov. 9, 2017

You must register so email: HamRadioClass@gmail.com so we can have the correct number of books to start the class and send you the weekly study assignments.



Saturday, March 4th, 2017 - Benicia, CA



AMATEUR RADIO LICENSE CLASS

Study Session followed by Exam

When: Saturday, March 4th, 2017

7:30 AM - 5:00 PM

**Where: Benicia Senior Center
187 East L Street, Benicia**

**What: Technician Class (beginner's level)
General Class Upgrade (for those already licensed as a Tech)**

**Fee: \$30.00 cash at the door
(Includes exam fee)**

Register: www.BeniciaARC.com

Questions: HamRadioClass@BeniciaARC.com or Art at (707) 746-5858

Conducted by:

**Benicia Amateur Radio Club (BARC)
Member W5YI VEC**

**Serving the Benicia Fire Department and
the Residents of the City of Benicia**



**Class size is limited. Advance Registration is Required.
No prep or prior study required.**



Prospective Hams should plan on attending a free Get-On-The-Air Class
after passing their test, to become familiar with Amateur Radio operations

Reserve Your Space - Become a Ham in One Day!



**Can't make the
upcoming class?
Check our website
periodically for our
next session.**

**Element 4 (Extra class)
You need only pay the
test fee of \$14. We do
not provide study
materials for Element 4.**



File: Ham Class March 2017 flyer

Sierra Foothills Amateur Radio Club presents:

Hamfest 2017

Saturday, March 18, 2017

Historic Loomis Train Depot

First swap of the Year!

Drawings, Free Parking, Great Seller Spots, Food & Drink available. Last 2 years were fantastic, 2017 should be even better!

Come on out and have some fun, talk with buddies and enjoy the swap more Info at: w6ek.org



California (Loomis) — Mar 18 **D F H R T V**
7:30 – 11 AM. *Spr:* Sierra Foothills ARC. Historic Loomis Train Depot Plaza, 3640 Taylor Rd. *TI:* 145.43, 223.86 (both 162.2 Hz). *Adm:* Free. www.w6ek.org.



Directions:

Located Northeast of Sacramento or Southeast of Auburn, off Interstate 80.

Loomis Exit off I80 - Horseshoe Bar Road
Go NNW to the Taylor Road stoplight.

Follow Signs to Buyer's parking.

Seller's go straight at the stoplight, then turn into the Seller's parking area.

Talk in on W6EK/r 145.430 pl 162.2Hz

CQ Hamfest - CQ Hamfest - CQ Hamfest - CQ Hamfest - CQ Hamfest - CQ Hamfest



December 15, 2016

Dear Amateur Radio & DX Enthusiast,

Are you waiting to see how Dayton does in its new home, but still want to meet and mingle with all your DX friends? Are you saving money for yet another tower, rig or amp? Then Join us next year for a fun event: The 68th International DX Convention in Visalia, CA., April 21 – 23, 2017!

IDXC 2017 is sponsored by the Northern California DX Club at the beautiful Visalia Convention Center in downtown Visalia, CA. IDXC is the premier DX Convention in the United States, and is attended by hundreds of serious DXers and Contesters looking to improve their skills, upgrade their stations and spend some quality hands-on time with the vendors' latest equipment offerings. If you're interested in getting involved in DXing, this is a great place to start!

Convention Highlights:

- We've added a day!
- Onsite Registration begins on Thursday afternoon, April 20, 2017 at 3:00 PM local time
- Convention is now a full 2.5 Days: Friday (April 21); Saturday (April 22); 1/2 day Sunday (April 23)
- 15-20 DX & Technical Seminars now on both Friday & Saturday
- Excellent Keynote Speakers
- 35-40 Exhibitors in large Exhibit Hall offering all the latest gear Friday and Saturday
- ARRL QSL Card Checking
- Great Raffle Prizes
- Open DX Forum; Contest Forum; ARRL Forum; YL Forum
- Optional training on Friday: Contest Academy - Basic & Advanced Contesting Techniques
- Eyeball QSOs with your DXing friends, or make some new ones!
- Optional Friday Dinners: Top Band Banquet or IOTA Banquet or Contest Banquet
- Optional Saturday Visalia Tour
- IDXC Registration is now open!
- For more information and to register, visit our website at: dxconvention.org

IDXC 2017 will be the biggest and the best International DX Convention yet, and we hope you'll be able to join us to enjoy it all!

73,

John Miller, K6MM
 Rich Seifert, KE1B
 Kevin Rowett, K6TD
 IDXC 2017 Co-Chairmen



HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V-V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

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(877) 892-1749

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(800) 765-4267

PHOENIX, AZ
(800) 559-7388

WOODBIDGE, VA
(800) 444-4799

PLANO, TX
(877) 455-8750

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
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DENVER, CO
(800) 444-9476

ATLANTA, GA
(800) 444-7927

SALEM, NH
(800) 444-0047

ONLINE STORE
WWW.HAMRADIO.COM

New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

www.mdarc.org



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

Monday 7:00 pm Washington High School Net 147.060+

Monday 8:00 pm SATERN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

FM 147.060 MHz + / PL 100Hz - EchoLink: W6CX-R /133896, IRLP: 3057
224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/> Digital ATV Output 1244.500

Digital ATV Input 1292.500

ATV Inputs: 1289.25 MHz AM; 1270.000 FM pl 192.8 915.0 AM 427.0 AM

ATV Internet Stream: <http://www.w6cxatv.net/live>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 146.355+ (77.0 PL)

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735+ (107.2 PL)

or 145.410 -- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

January 2017 and February 2017 Club Calendar

Friday January 20, 2017	7:30pm	MDARC General Meeting - Our Saviors Lutheran Church 1035 Carol Lane, Lafayette
Monday February 6, 2017	6:30pm	MDARC Board Meeting Black Bear Restaurant, 700 Bancroft Avenue, Walnut Creek
Saturday February 4, 2017	8:00 am	MDARC Technical Committee Environmental Center, 2581 Harbor Street, Pittsburg
Friday February 17, 2017	7:30pm	MDARC General Meeting - Our Saviors Lutheran Church 1035 Carol Lane, Lafayette